NAME OF THE WORK: Improvements To Roads And Drains At Tanisandra Dasarahalli Saraipalya And Bharathnagar And Surrounding Area In Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Si No 109,110,111. Comprehensive Development And Improvements To Roads And Drains Rachenahalli And Surrounding Area In Ward No 6&7 Byatarayanapura Sub Division Package -2 (Old Annuxure-2) Go Sl No 12and 113

Second and Part Bill

Quality Control Reports

BOOK NO – 02

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Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111.
Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Sl NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

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8	RCC(M20)	Compressive Strength(7days and 28days)	4 set /31-100 cum	41.03	8	8
9	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	4 set /31-100 cum	52.5	8	8
10	GSB	SIEVE ANALYSIS	One Test		1	1
11	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
12	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
13	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
14	TACK COAT	Rate of spread	One Test		1	1

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M P Bangalore-560024

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2022-06-23-45** **Date: 30-12-2021**

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 27-12-2021

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6

Date of test : 28-12-2021

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	–
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28%	Not specified
5	Initial Setting time	180 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

Assistant Executive Engineer
Byatarayenapura Sub Division
B.B.M.P Bangalore-560024

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2022-06-23-45** **Date: 24-01-2022**

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 27-12-2021

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6

Date of test : 27-12-2021

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	59.0N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Date: 30-12-2021

Lab ID	:	**CP-2022-06-23-45**
Project Name	:	Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
Agency	:	M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
Customer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	27-12-2021
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-12-2021

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	7254	7468	49.8	50.2	30-70
4	10 mm	4442	11910	79.4	20.6	10-35
5	4.75 mm	2685	14595	97.3	2.7	0-5
6	Pan	405	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-06-23-45** **Date: 30-12-2021**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.17	–

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-06-23-45** **Date: 29-12-2021**

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 27-12-2021

Sample Type/ Size : 20mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 27-12-2021

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	237	237	4.7	95.3	90-100
3	10 mm	2544	2781	55.6	44.4	25-55
4	4.75 mm	2107	4888	97.8	2.2	0-10
5	Pan	112	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-06-23-45** **Date: 29-12-2021**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.19	–
7	Aggregate crushing Value(%)	25.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

Assistant Executive Engineer
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TEST REPORT OF FINE AGGREGATE

Date: 29-12-2021

Lab ID : CP-2022-06-23-45

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 27-12-2021

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 27-12-2021

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	26	26	2.6	97.4	90-100	90-100	90-100	95-100
3	2.36 mm	51	77	7.7	92.3	60-95	75-100	85-100	95-100
4	1.18 mm	238	315	31.5	68.5	30-70	55-90	75-100	90-100
5	600 micron	201	516	51.6	48.4	15-34	35-59	60-79	80-100
6	300 micron	204	720	72.0	28.0	5-20	8-30	12-40	15-50
7	150 micron	192	912	91.2	8.8	0-10	0-10	0-10	0-15
8	Pan	88	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

Assistant Executive Engineer
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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-06-23-45** **Date: 29-12-2021**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.51	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	6.7	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Assistant Executive Engineer
Byatarayanapura Sub Division
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TEST RESULTS OF STEEL

Lab ID : **CP-2022-06-23-45** **Date: 28-12-2021**

Project Name : Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

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Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 27-12-2021

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.

Date of test: : 27-12-2021

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560092

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R KARTHIK RECHAN
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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2022-06-23-45** **Date: 31-12-2021**

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 27-12-2021

Sample Type /Size : Precast Cover Slab (100 mm Thick)

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 27/12/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	100.5	22.4	20.9	26.1
2	Cover Slab-2	75.49	100.52	1.122	4475	110.5	24.7	23.0	28.7
3	Cover Slab-3	75.50	100.51	1.118	4476	115.5	25.8	24.0	30.0

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division
Bangalore-560024

CIVIL Pro Sig..... Date..... BANGALORE

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Date: 31-12-2021

Lab ID : **CP-2022-06-23-45**

Project Name : Package-3. Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 27-12-2021

Sample Type /Size : Precast Cover Slab (250 mm Thick)

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 27/12/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.42	250.49	3.116	31542	610.5	19.4	18.0	22.5
2	Cover Slab-2	200.54	250.63	3.129	31580	615.5	19.5	18.1	22.7
3	Cover Slab-3	200.60	250.74	3.148	31599	618.5	19.6	18.2	22.8

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/01/2022

Lab ID : **CP-2022-06-23-45**

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 13-01-2022

Customer ID : Culvert Bottom Raft - Bhuvaneshwara Nagara - 14th A Cross

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/01/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft - Bhuvaneshwara Nagara - 14th A Cross	M20	11/01/2022	18/01/2022	151.21 X 149.77 X 150.71	22647	8.703	416.9	18.4	18.7
2	Culvert Bottom Raft - Bhuvaneshwara Nagara - 14th A Cross	M20	11/01/2022	18/01/2022	149.78 X 151.78 X 150.95	22733	8.960	428.8	18.9	
3	Culvert Bottom Raft - Bhuvaneshwara Nagara - 14th A Cross	M20	11/01/2022	18/01/2022	150.95 X 150.19 X 150.52	22671	8.984	424.4	18.7	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date.....

FOR CIVIL Pro.

R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/02/2022

Lab ID	:	**CP-2022-06-23-45**
Project Name	:	Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
Agency	:	M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
Customer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	13-01-2022
Customer ID	:	Culvert Bottom Raft - Bhuvaneshwara Nagara - 14th A Cross
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft - Bhuvaneshwara Nagara - 14th A Cross	M20	11/01/2022	08/02/2022	151.17 X 151.55 X 150.06	22910	8.897	528.6	23.1	23.1
2	Culvert Bottom Raft - Bhuvaneshwara Nagara - 14th A Cross	M20	11/01/2022	08/02/2022	150.04 X 151.56 X 150.54	22739	8.975	512.8	22.6	
3	Culvert Bottom Raft - Bhuvaneshwara Nagara - 14th A Cross	M20	11/01/2022	08/02/2022	149.47 X 149.85 X 150.03	22398	8.372	529.5	23.6	

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.
Sig.....
Date.....R KARTHIK RECHAN
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****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-06-23-45 **Date: 22/01/2022**

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 17-01-2022

Customer ID : Culvert Bottom Raft - Varma Layout

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/01/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft - Varma Layout	M20	15/01/2022	22/01/2022	151.75 X 150.89 X 149.04	22898	8.324	418.8	18.3	18.2
2	Culvert Bottom Raft - Varma Layout	M20	15/01/2022	22/01/2022	149.68 X 149.53 X 150.77	22382	8.873	403.6	18.0	
3	Culvert Bottom Raft - Varma Layout	M20	15/01/2022	22/01/2022	151.97 X 149.51 X 150.89	22720	8.582	416.2	18.3	

* The results obtained are satisfactory as per standard requirements

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 12/02/2022

Lab ID : CP-2022-06-23-45

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 17-01-2022

Customer ID : Culvert Bottom Raft - Varma Layout

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft - Varma Layout	M20	15/01/2022	12/02/2022	149.58 X 151.02 X 149.85	22589	9.002	526.6	23.3	23.0
2	Culvert Bottom Raft - Varma Layout	M20	15/01/2022	12/02/2022	151.35 X 149.69 X 151.27	22655	8.848	509.6	22.5	
3	Culvert Bottom Raft - Varma Layout	M20	15/01/2022	12/02/2022	149.69 X 151.19 X 151.28	22632	8.460	523.4	23.1	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-06-23-45** **Date: 20/01/2022**

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 17-01-2022

Customer ID : Culvert Side Wall - Bhuvaneshwara Nagara - 14th A Cross

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/01/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall - Bhuvaneshwara Nagara - 14th A Cross	M20	13/01/2022	20/01/2022	149.52 X 150.25 X 149.76	22466	8.605	417.3	18.6	18.4
2	Culvert Side Wall - Bhuvaneshwara Nagara - 14th A Cross	M20	13/01/2022	20/01/2022	150.47 X 149.38 X 150.25	22478	8.866	410.1	18.2	
3	Culvert Side Wall - Bhuvaneshwara Nagara - 14th A Cross	M20	13/01/2022	20/01/2022	151.84 X 151.04 X 150.96	22935	8.140	423.2	18.5	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560026

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/02/2022

Lab ID : CP-2022-06-23-45

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 17-01-2022

Customer ID : Culvert Side Wall - Bhuvaneshwara Nagara - 14th A Cross

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall - Bhuvaneshwara Nagara - 14th A Cross	M20	13/01/2022	10/02/2022	150.52 X 150.01 X 149.61	22581	8.721	537.0	23.8	23.2
2	Culvert Side Wall - Bhuvaneshwara Nagara - 14th A Cross	M20	13/01/2022	10/02/2022	150.70 X 149.15 X 150.96	22477	8.813	499.8	22.2	
3	Culvert Side Wall - Bhuvaneshwara Nagara - 14th A Cross	M20	13/01/2022	10/02/2022	152.00 X 149.54 X 151.78	22730	8.776	539.3	23.7	

* The results obtained are satisfactory as per standard requirements.

Assistant Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/01/2022

Lab ID : CP-2022-06-23-45

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 19-01-2022

Customer ID : Culvert Side Wall - Varma Layout

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/01/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall - Varma Layout	M20	17/01/2022	24/01/2022	150.16 X 151.71 X 151.21	22782	8.506	426.2	18.7	18.6
2	Culvert Side Wall - Varma Layout	M20	17/01/2022	24/01/2022	151.18 X 150.94 X 151.17	22819	8.298	422.5	18.5	
3	Culvert Side Wall - Varma Layout	M20	17/01/2022	24/01/2022	151.21 X 150.73 X 149.25	22791	9.091	421.8	18.5	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division
BBMP Bangalore-560024

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 14/02/2022

Lab ID : CP-2022-06-23-45

Project Name : Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 19-01-2022

Customer ID : Culvert Side Wall - Varma Layout

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall - Varma Layout	M20	17/01/2022	14/02/2022	149.36 X 150.54 X 149.08	22485	8.739	529.8	23.6	23.4
2	Culvert Side Wall - Varma Layout	M20	17/01/2022	14/02/2022	151.20 X 151.36 X 151.73	22887	8.743	520.1	22.7	
3	Culvert Side Wall - Varma Layout	M20	17/01/2022	14/02/2022	149.17 X 150.01 X 151.42	22377	8.212	536.6	24.0	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P, Bangalore-560024

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R KARTHIK RECHAN
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/02/2022

Lab ID	:	CP-2022-06-23-45
Project Name	:	Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
Agency	:	M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
Customer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	17-02-2022
Customer ID	:	Cement Concrete Pavement - Thanisandra W0802
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Thanisandra W0802	M30	14/02/2022	21/02/2022	149.51 X 149.09 X 151.65	22290	8.385	575.0	25.8	25.8
2	Cement Concrete Pavement - Thanisandra W0802	M30	14/02/2022	21/02/2022	150.06 X 149.81 X 149.73	22481	8.773	598.9	26.6	
3	Cement Concrete Pavement - Thanisandra W0802	M30	14/02/2022	21/02/2022	149.22 X 149.95 X 150.04	22377	8.966	559.4	25.0	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 14/03/2022

Lab ID : CP-2022-06-23-45

Project Name : Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 17-02-2022

Customer ID : Cement Concrete Pavement - Thanisandra W0802

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Thanisandra W0802	M30	14/02/2022	14/03/2022	151.31 X 150.53 X 151.96	22777	8.340	759.4	33.3	33.0
2	Cement Concrete Pavement - Thanisandra W0802	M30	14/02/2022	14/03/2022	150.59 X 150.54 X 149.28	22670	8.353	733.7	32.4	
3	Cement Concrete Pavement - Thanisandra W0802	M30	14/02/2022	14/03/2022	151.32 X 151.97 X 150.98	22995	8.571	764.4	33.2	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date.....

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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560026

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/02/2022

Lab ID : CP-2022-06-23-45

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 16-02-2022

Customer ID : Cement Concrete Pavement - Thanisandra W0802

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Thanisandra W0802	M30	14/02/2022	21/02/2022	150.47 X 151.14 X 150.73	22742	8.261	573.4	25.2	25.5
2	Cement Concrete Pavement - Thanisandra W0802	M30	14/02/2022	21/02/2022	150.45 X 151.18 X 150.26	22744	8.602	602.5	26.5	
3	Cement Concrete Pavement - Thanisandra W0802	M30	14/02/2022	21/02/2022	151.08 X 150.86 X 149.80	22792	8.142	564.9	24.8	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P, Bangalore-560024

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

**** End of Report ****

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 14/03/2022

Lab ID	:	**CP-2022-06-23-45**
Project Name	:	Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
Agency	:	M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
Customer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	16-02-2022
Customer ID	:	Cement Concrete Pavement - Thanisandra W0802
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	14/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Thanisandra W0802	M30	14/02/2022	14/03/2022	149.99 X 149.04 X 150.24	22355	8.591	746.2	33.4	33.1
2	Cement Concrete Pavement - Thanisandra W0802	M30	14/02/2022	14/03/2022	151.80 X 149.22 X 149.68	22651	8.620	742.0	32.8	
3	Cement Concrete Pavement - Thanisandra W0802	M30	14/02/2022	14/03/2022	150.81 X 149.50 X 151.07	22546	8.589	745.5	33.1	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-06-23-45** **Date: 17/03/2022**

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 19-02-2022

Customer ID : Cement Concrete Pavement - Thanisandra W0574

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Thanisandra W0574	M30	17/02/2022	17/03/2022	149.11 X 151.40 X 150.67	22574	8.586	764.1	33.8	33.3
2	Cement Concrete Pavement - Thanisandra W0574	M30	17/02/2022	17/03/2022	149.07 X 151.49 X 150.82	22583	8.899	738.9	32.7	
3	Cement Concrete Pavement - Thanisandra W0574	M30	17/02/2022	17/03/2022	150.95 X 151.26 X 150.79	22832	8.640	759.4	33.3	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
B.Y.Narayanapura Sub Division
B.B.M.P Bangalore-560024

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/02/2022

Lab ID	:	CP-2022-06-23-45
Project Name	:	Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
Agency	:	M s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
Customer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	19-02-2022
Customer ID	:	Cement Concrete Pavement - Thanisandra W0574
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Thanisandra W0574	M30	17/02/2022	24/02/2022	150.22 X 151.38 X 149.23	22741	8.746	591.2	26.0	25.9
2	Cement Concrete Pavement - Thanisandra W0574	M30	17/02/2022	24/02/2022	151.65 X 151.91 X 149.75	23037	8.281	613.8	26.6	
3	Cement Concrete Pavement - Thanisandra W0574	M30	17/02/2022	24/02/2022	149.19 X 151.01 X 150.01	22529	8.342	562.6	25.0	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P, Bangalore-560024

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-06-23-45 **Date: 17/03/2022**

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 19-02-2022

Customer ID : Cement Concrete Pavement - Thanisandra W0574

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Thanisandra W0574	M30	17/02/2022	17/03/2022	149.55 X 149.74 X 151.52	22393	9.017	746.4	33.3	32.9
2	Cement Concrete Pavement - Thanisandra W0574	M30	17/02/2022	17/03/2022	150.89 X 150.18 X 149.59	22661	8.621	730.8	32.2	
3	Cement Concrete Pavement - Thanisandra W0574	M30	17/02/2022	17/03/2022	149.57 X 149.40 X 150.59	22347	8.977	738.1	33.0	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date.....

FOR CIVIL Pro.

R.KARTHIK RECHAN
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Quality Manager

Assistant Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/02/2022

Lab ID	:	CP-2022-06-23-45
Project Name	:	Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
Agency	:	M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
Customer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	22-02-2022
Customer ID	:	Cement Concrete Pavement - Rachenahalli W0727
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Rachenahalli W0727	M30	20/02/2022	27/02/2022	151.80 X 151.13 X 150.25	22941	8.966	582.3	25.4	25.4
2	Cement Concrete Pavement - Rachenahalli W0727	M30	20/02/2022	27/02/2022	149.91 X 149.47 X 149.80	22406	8.172	597.2	26.7	
3	Cement Concrete Pavement - Rachenahalli W0727	M30	20/02/2022	27/02/2022	150.27 X 151.04 X 150.85	22698	9.039	546.7	24.1	

• The results obtained are satisfactory as per standard requirements.

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Byatarayanapura Sub Division
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/03/2022

Lab ID : CP-2022-06-23-45

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 22-02-2022

Customer ID : Cement Concrete Pavement - Rachenahalli W0727

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Rachenahalli W0727	M30	20/02/2022	20/03/2022	151.38 X 150.56 X 149.92	22793	8.353	768.8	33.7	33.5
2	Cement Concrete Pavement - Rachenahalli W0727	M30	20/02/2022	20/03/2022	151.00 X 149.99 X 150.41	22648	8.816	743.2	32.8	
3	Cement Concrete Pavement - Rachenahalli W0727	M30	20/02/2022	20/03/2022	149.79 X 151.40 X 149.20	22679	8.881	768.9	33.9	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-06-23-45 **Date: 28/02/2022**

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 22-02-2022

Customer ID : Cement Concrete Pavement - Rachenahalli W0727

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Rachenahalli W0727	M30	20/02/2022	27/02/2022	150.58 X 150.43 X 149.52	22653	9.024	581.0	25.6	25.6
2	Cement Concrete Pavement - Rachenahalli W0727	M30	20/02/2022	27/02/2022	149.53 X 150.22 X 150.47	22463	8.397	602.9	26.8	
3	Cement Concrete Pavement - Rachenahalli W0727	M30	20/02/2022	27/02/2022	150.69 X 149.93 X 149.44	22593	8.524	548.7	24.3	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/03/2022

Lab ID : CP-2022-06-23-45

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 22-02-2022

Customer ID : Cement Concrete Pavement - Rachenahalli W0727

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Rachenahalli W0727	M30	20/02/2022	20/03/2022	149.13 X 150.70 X 150.65	22474	8.233	746.4	33.2	33.0
2	Cement Concrete Pavement - Rachenahalli W0727	M30	20/02/2022	20/03/2022	150.62 X 149.54 X 151.71	22525	8.146	725.2	32.2	
3	Cement Concrete Pavement - Rachenahalli W0727	M30	20/02/2022	20/03/2022	151.42 X 150.13 X 151.42	22734	8.970	762.6	33.5	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P, Bangalore-560024

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

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Certificate No.: TC-5548

Format No CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/03/2022

Lab ID	:	CP-2022-06-23-45
Project Name	:	Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
Agency	:	M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
Customer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	25-02-2022
Customer ID	:	Cement Concrete Pavement - Rachenahalli W0723
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Rachenahalli W0723	M30	23/02/2022	02/03/2022	149.67 X 151.91 X 149.49	22736	8.229	577.6	25.4	25.4
2	Cement Concrete Pavement - Rachenahalli W0723	M30	23/02/2022	02/03/2022	150.54 X 151.45 X 150.27	22799	8.463	607.4	26.6	
3	Cement Concrete Pavement - Rachenahalli W0723	M30	23/02/2022	02/03/2022	150.13 X 150.05 X 149.32	22528	8.110	546.8	24.3	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R.KARTHIK RECHAN
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Quality Manager

B.B.M.P Bangalore-560024

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/03/2022

Lab ID : CP-2022-06-23-45

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 25-02-2022

Customer ID : Cement Concrete Pavement - Rachenahalli W0723

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Rachenahalli W0723	M30	23/02/2022	23/03/2022	149.70 X 151.66 X 150.32	22704	8.452	767.1	33.8	33.4
2	Cement Concrete Pavement - Rachenahalli W0723	M30	23/02/2022	23/03/2022	150.91 X 151.17 X 150.15	22814	8.499	749.3	32.8	
3	Cement Concrete Pavement - Rachenahalli W0723	M30	23/02/2022	23/03/2022	151.02 X 150.54 X 149.53	22735	9.019	763.1	33.6	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P, Bangalore-560024

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-06-23-45 **Date: 02/03/2022**

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 25-02-2022

Customer ID : Cement Concrete Pavement - Rachenahalli W0723

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Rachenahalli W0723	M30	23/02/2022	02/03/2022	150.98 X 150.53 X 150.59	22727	8.631	577.3	25.4	25.5
2	Cement Concrete Pavement - Rachenahalli W0723	M30	23/02/2022	02/03/2022	150.02 X 151.30 X 150.43	22699	8.374	596.2	26.3	
3	Cement Concrete Pavement - Rachenahalli W0723	M30	23/02/2022	02/03/2022	150.40 X 150.93 X 150.40	22699	9.068	563.6	24.8	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date.....

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R KARTHIK RECHAN
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/03/2022

Lab ID : CP-2022-06-23-45

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 25-02-2022

Customer ID : Cement Concrete Pavement - Rachenahalli W0723

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Rachenahalli W0723	M30	23/02/2022	23/03/2022	150.80 X 150.04 X 149.89	22625	8.126	752.9	33.3	32.8
2	Cement Concrete Pavement - Rachenahalli W0723	M30	23/02/2022	23/03/2022	151.48 X 150.70 X 150.93	22827	8.738	732.4	32.1	
3	Cement Concrete Pavement - Rachenahalli W0723	M30	23/02/2022	23/03/2022	151.57 X 150.62 X 151.52	22830	8.252	757.3	33.2	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
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****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/03/2022

Lab ID : CP-2022-06-23-45

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 28-02-2022

Customer ID : Cement Concrete Pavement - Bharath Nagara W1203

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Bharath Nagara W1203	M30	26/02/2022	05/03/2022	150.79 X 150.74 X 150.07	22731	8.210	581.1	25.6	25.3
2	Cement Concrete Pavement - Bharath Nagara W1203	M30	26/02/2022	05/03/2022	151.99 X 151.60 X 151.24	23042	8.854	600.1	26.0	
3	Cement Concrete Pavement - Bharath Nagara W1203	M30	26/02/2022	05/03/2022	150.63 X 151.83 X 149.51	22870	8.702	558.1	24.4	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-06-23-45** **Date: 26/03/2022**

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 28-02-2022

Customer ID : Cement Concrete Pavement - Bharath Nagara W1203

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Bharath Nagara W1203	M30	26/02/2022	26/03/2022	151.28 X 150.77 X 149.98	22809	8.409	754.5	33.1	33.2
2	Cement Concrete Pavement - Bharath Nagara W1203	M30	26/02/2022	26/03/2022	150.13 X 150.51 X 150.39	22595	8.181	736.6	32.6	
3	Cement Concrete Pavement - Bharath Nagara W1203	M30	26/02/2022	26/03/2022	149.99 X 150.48 X 149.02	22571	8.130	764.2	33.9	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P, Bangalore-560024

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

Page 1/1
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-06-23-45** **Date: 05/03/2022**

Project Name : Package-3. Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109.110.111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 28-02-2022

Customer ID : Cement Concrete Pavement - Bharath Nagara W1203

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Bharath Nagara W1203	M30	26/02/2022	05/03/2022	149.50 X 151.22 X 151.82	22607	8.534	581.5	25.7	25.3
2	Cement Concrete Pavement - Bharath Nagara W1203	M30	26/02/2022	05/03/2022	149.16 X 149.01 X 150.01	22226	8.228	580.9	26.1	
3	Cement Concrete Pavement - Bharath Nagara W1203	M30	26/02/2022	05/03/2022	150.46 X 151.71 X 150.85	22826	8.885	548.3	24.0	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P, Bangalore-560024

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/03/2022

Lab ID	:	CP-2022-06-23-45
Project Name	:	Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
Agency	:	M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
Customer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	28-02-2022
Customer ID	:	Cement Concrete Pavement - Bharath Nagara W1203
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Bharath Nagara W1203	M30	26/02/2022	26/03/2022	149.92 X 150.12 X 150.51	22506	8.365	755.1	33.6	33.1
2	Cement Concrete Pavement - Bharath Nagara W1203	M30	26/02/2022	26/03/2022	149.04 X 149.09 X 150.91	22221	8.553	713.7	32.1	
3	Cement Concrete Pavement - Bharath Nagara W1203	M30	26/02/2022	26/03/2022	150.71 X 151.77 X 149.34	22873	8.664	769.7	33.7	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division
Bangalore-560024

CIVIL Pro
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Date.....
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FOR CIVIL Pro.
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-06-23-45 **Date: 08/03/2022**

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 03-03-2022

Customer ID : Cement Concrete Pavement - Bharath Nagara W1211

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Cement Concrete Pavement - Bharath Nagara W1211	M30	01/03/2022	08/03/2022	149.89 X 151.55 X 151.75	22717	8.237	589.4	25.9	25.7
2	Cement Concrete Pavement - Bharath Nagara W1211	M30	01/03/2022	08/03/2022	151.73 X 150.33 X 149.84	22810	8.319	614.1	26.9	
3	Cement Concrete Pavement - Bharath Nagara W1211	M30	01/03/2022	08/03/2022	150.66 X 151.31 X 151.98	22797	8.284	549.6	24.1	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560092

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/03/2022

Lab ID : CP-2022-06-23-45

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 03-03-2022

Customer ID : Cement Concrete Pavement - Bharath Nagara W1211

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Bharath Nagara W1211	M30	01/03/2022	29/03/2022	151.84 X 149.76 X 150.69	22739	9.083	761.2	33.5	33.0
2	Cement Concrete Pavement - Bharath Nagara W1211	M30	01/03/2022	29/03/2022	149.32 X 149.57 X 151.44	22335	8.920	724.4	32.4	
3	Cement Concrete Pavement - Bharath Nagara W1211	M30	01/03/2022	29/03/2022	151.54 X 149.85 X 149.72	22709	8.474	751.5	33.1	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-06-23-45** **Date: 08/03/2022**

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 03-03-2022

Customer ID : Cement Concrete Pavement - Bharath Nagara W1211

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Bharath Nagara W1211	M30	01/03/2022	08/03/2022	149.14 X 151.11 X 149.39	22536	8.274	581.8	25.8	25.8
2	Cement Concrete Pavement - Bharath Nagara W1211	M30	01/03/2022	08/03/2022	150.87 X 151.08 X 149.38	22792	8.906	610.3	26.8	
3	Cement Concrete Pavement - Bharath Nagara W1211	M30	01/03/2022	08/03/2022	151.90 X 151.35 X 150.25	22990	8.391	571.7	24.9	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-06-23-45** **Date: 29/03/2022**

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 03-03-2022

Customer ID : Cement Concrete Pavement - Bharath Nagara W1211

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Bharath Nagara W1211	M30	01/03/2022	29/03/2022	151.18 X 151.07 X 149.54	22838	8.728	762.4	33.4	33.4
2	Cement Concrete Pavement - Bharath Nagara W1211	M30	01/03/2022	29/03/2022	151.04 X 149.16 X 151.60	22530	9.004	738.0	32.8	
3	Cement Concrete Pavement - Bharath Nagara W1211	M30	01/03/2022	29/03/2022	151.98 X 151.27 X 150.04	22990	8.931	781.7	34.0	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/03/2022

Lab ID : CP-2022-06-23-45

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 07-03-2022

Customer ID : Cement Concrete Pavement - Bharath Nagara W1211 A

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Bharath Nagara W1211 A	M30	04/03/2022	11/03/2022	149.29 X 151.84 X 151.63	22669	8.690	584.5	25.8	25.6
2	Cement Concrete Pavement - Bharath Nagara W1211 A	M30	04/03/2022	11/03/2022	149.96 X 151.45 X 151.64	22711	8.551	610.2	26.9	
3	Cement Concrete Pavement - Bharath Nagara W1211 A	M30	04/03/2022	11/03/2022	151.97 X 150.86 X 151.83	22927	8.419	553.5	24.1	

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Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/04/2022

Lab ID	:	**CP-2022-06-23-45**
Project Name	:	Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
Agency	:	M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
Customer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	07-03-2022
Customer ID	:	Cement Concrete Pavement - Bharath Nagara W1211 A
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Bharath Nagara W1211 A	M30	04/03/2022	01/04/2022	150.33 X 149.76 X 149.36	22514	9.082	757.0	33.6	33.2
2	Cement Concrete Pavement - Bharath Nagara W1211 A	M30	04/03/2022	01/04/2022	150.37 X 150.16 X 151.54	22579	8.793	736.6	32.6	
3	Cement Concrete Pavement - Bharath Nagara W1211 A	M30	04/03/2022	01/04/2022	149.72 X 151.94 X 151.09	22748	8.619	759.5	33.4	

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Byatarayanapura Sub Division
Bangalore-560024

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/03/2022

Lab ID	:	**CP-2022-06-23-45**
Project Name	:	Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
Agency	:	M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
Customer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	07-03-2022
Customer ID	:	Cement Concrete Pavement - Bharath Nagara W1211 A
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Bharath Nagara W1211 A	M30	04/03/2022	11/03/2022	150.65 X 151.14 X 150.78	22770	8.625	578.1	25.4	25.5
2	Cement Concrete Pavement - Bharath Nagara W1211 A	M30	04/03/2022	11/03/2022	150.69 X 150.32 X 150.69	22652	8.157	604.5	26.7	
3	Cement Concrete Pavement - Bharath Nagara W1211 A	M30	04/03/2022	11/03/2022	149.08 X 149.04 X 150.08	22219	8.923	541.7	24.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/04/2022

Lab ID	:	**CP-2022-06-23-45**
Project Name	:	Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
Agency	:	M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
Customer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	07-03-2022
Customer ID	:	Cement Concrete Pavement - Bharath Nagara W1211 A
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Bharath Nagara W1211 A	M30	04/03/2022	01/04/2022	151.15 X 149.84 X 151.47	22648	8.493	759.6	33.5	33.2
2	Cement Concrete Pavement - Bharath Nagara W1211 A	M30	04/03/2022	01/04/2022	149.95 X 149.72 X 149.03	22451	9.072	725.5	32.3	
3	Cement Concrete Pavement - Bharath Nagara W1211 A	M30	04/03/2022	01/04/2022	149.15 X 150.28 X 151.45	22414	8.953	753.4	33.6	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 14/03/2022

Lab ID : CP-2022-06-23-45

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 09-03-2022

Customer ID : Cement Concrete Pavement - Bharath Nagara W1213 A

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Bharath Nagara W1213 A	M30	07/03/2022	14/03/2022	149.64 X 150.14 X 150.62	22467	8.230	574.9	25.6	25.8
2	Cement Concrete Pavement - Bharath Nagara W1213 A	M30	07/03/2022	14/03/2022	150.27 X 150.89 X 151.68	22673	8.435	609.4	26.9	
3	Cement Concrete Pavement - Bharath Nagara W1213 A	M30	07/03/2022	14/03/2022	151.43 X 150.06 X 151.95	22724	8.480	566.8	24.9	

• The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division
BBMP Bangalore-560024

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-06-23-45** **Date: 04/04/2022**

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehexsive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 09-03-2022

Customer ID : Cement Concrete Pavement - Bharath Nagara W1213 A

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Bharath Nagara W1213 A	M30	07/03/2022	04/04/2022	151.74 X 150.04 X 150.31	22767	8.653	755.4	33.2	33.4
2	Cement Concrete Pavement - Bharath Nagara W1213 A	M30	07/03/2022	04/04/2022	151.56 X 151.30 X 150.85	22932	8.372	755.6	32.9	
3	Cement Concrete Pavement - Bharath Nagara W1213 A	M30	07/03/2022	04/04/2022	149.19 X 150.13 X 151.88	22398	8.871	760.8	34.0	

* The results obtained are satisfactory as per standard requirements.

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